



App Reputation Report

An Appthority Publication

Summer 2014



Introduction

The Appthority® App Reputation Report for summer 2014 provides an overview of the security risks behind the most popular mobile apps. For this report, Appthority App Risk Management Service analyzed the behaviors of Top 400 mobile apps: the top 100 free apps and 100 paid apps for both of the most popular mobile platforms, iOS and Android. The findings were compared against the data collected in the Summer 2013 report to provide broader insight into the evolution of the app economy.

This year Appthority witnessed consistent risky app behaviors across both platforms and compiled the Top 10 Risky App Behaviors that put consumers and businesses at-risk. Appthority determined that the top risky app behaviors most often fall into one of two categories: sensitive data being captured and sensitive data being shared.

What kinds of data are the most popular apps capturing and where is that data going? This report explains how risky apps access user and corporate data and how that data could be potentially misused. Appthority also examines which third parties are receiving or buying data.

In the ongoing battle to determine which platform is more secure, iOS and Android are now nearly equal when it comes to the risky behavior of the top free apps. However, paid iOS apps surprisingly collect more data and share that information with more third parties than Android paid apps, making iOS slightly more risky than Android. On the whole, free apps remain the most risky category, exhibiting the greatest number of risky behaviors across both platforms.

Risky mobile app behaviors are not only a significant risk to end-users, they also pose significant threats to organizations. With more employees using their own mobile devices and apps for work (BYOD – Bring Your Own Device and BYOA – Bring Your Own Apps), both personal and corporate data is intermingling on a single device. As the Top 10 Risky App Behaviors demonstrate, sensitive data is frequently up-for-grabs for third parties to misuse.

Figure 1a. Top FREE Apps with Risky Behaviors: 100 iOS and 100 Android



Figure 1b. Top PAID Apps with Risky Behaviors: iOS and Android





Which apps organizations allow employees to use and which ones are deemed too dangerous depends on the employer's tolerance for risk. The first step is understanding the hidden risky behaviors behind the most popular apps. With app titles in the top 100 constantly changing it is important to continuously monitor the app ecosystem for new app titles and changing versions. With millions of net new apps created almost every month just from new versions of existing apps, risk analysis of the top apps can quickly become outdated and stale if not continuously monitored.

The Appthority Service is the industry's first fully automated direct-to-enterprise solution for organizations to measure the total risk of public and private apps in their environments within minutes. The SaaS-based service allows IT and security administrators the flexibility to create and manage mobile app policies by company department, by geography or even by device type — whether company or employee owned. This includes approving and enforcing custom, acceptable use policies at scale, and supporting the creation and implementation of multiple group and role-based policies simultaneously.

Additionally, the Appthority Service includes detection for cloud-based file storage violations, a priority for enterprises combatting "Rogue IT." Organizations may sign up directly with Appthority for instant access to the world's largest database of more than two and a half million analyzed apps and obtain new insights into risky app behaviors, privacy issues and mobile malware. Enterprises may also upload new and homegrown apps and obtain app reputation and risky behavior reports in minutes.

Testing Methodology for this Report

The cloud-based Appthority App Risk Management Service performed static, dynamic, and behavioral app analysis on the most popular free and paid apps on the iOS and Android platforms. Appthority analyzed each app for particular behaviors within a test environment. Some of these behaviors include location tracking, sharing data with advertising networks or analytic frameworks, accessing and sharing the user's contact list or address book, accessing the user's calendar or in-app purchasing. Appthority also examined apps for these behaviors: identifying the user (or the Unique Device Identifier, UDID) and single sign-on (SSO) support via social networking site integration.

Although malicious software (malware) created to compromise device security or data is portrayed as the principal villain in the mobile application security narrative, malware is not the primary threat to user privacy or enterprise security on mobile devices because it is seldom found on enterprise devices.

The real concern should be over how popular mobile apps are handling personal info and company data as those apps are often present on employee devices. Appthority's deep analysis into app behaviors actually proves that mobile malware infects only .4% of mobile apps in the enterprise and 0% of apps found in the Top 400.

Report Highlights

Overall, most free apps on both OSs exhibited at least one of the Top 10 Risky Behaviors discussed in this report: risky behaviors were found on 99% of iOS free apps and 99% of Android free apps

- 78% of the top Android paid apps had at least one of the Top 10 Risky Behaviors
- 87% of the top iOS paid apps had at least one of the Top 10 Risky Behaviors
- 82% of free Android and 50% of free iOS apps allow location tracking
- 88% of the top free Android, 65% of paid Android apps access the user's ID (UDID) compared to 57% of free iOS and 28% of paid iOS apps
- 71% of free Android apps share data with ad networks up from 58% of free Android apps earlier this year
- 58% of the top free Android apps and 55% of the top free iOS apps allow for in-app purchases
- 31% of the top free Android apps connect to cloud file storage, compared to 16% of free iOS apps



Top 10 Risky Behaviors

Are free apps really "free"? Appthority found that the popularity of free apps continues to come at the price of privacy and security. App developers are increasingly funding their free apps by sharing user data with third parties, such as advertising networks and analytics companies, with some developers being paid more for collecting and sharing more data. With high risks of exposing security, privacy and financial info, Appthority determined where the data collected by apps is going, which third parties are buying the data and the potential risks of the transaction. Additionally, a growing number of both free and paid apps allow for in-app purchases.

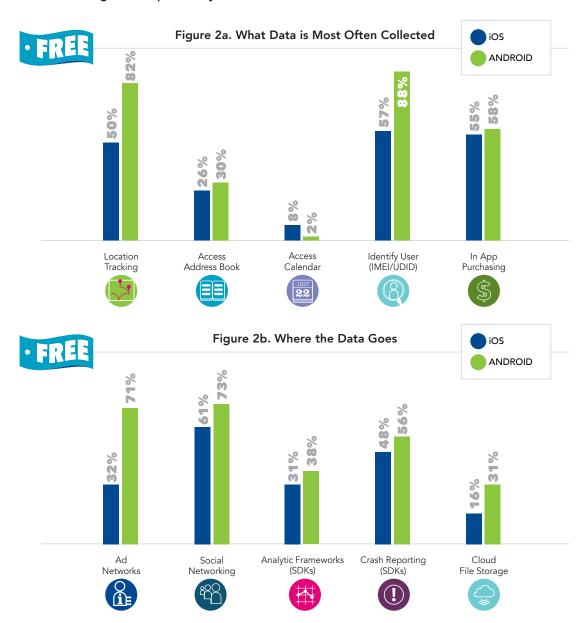


Figure 2. Top 10 Risky Behaviors: Data Collection and Where the Data Goes



Figure 3a. What Data is Most Often Collected iOS ANDROID **65%** 26% **%65** 30% **58%** 24% Identify User (IMEI/UDID) In App Location Access Access Address Book Calendar Purchasing Tracking Figure 3b. Where the Data Goes iOS ANDROID 23%

Analytic Frameworks (SDKs)

Crash Reporting (SDKs)

Cloud File Storage

Figure 3. Top 10 Risky Behaviors: Data Collection and Where the Data Goes.

16%

Ad

Networks

Social

Networking



What Data Is Most Often Collected?

Tracks User's Location

- 82% of the top Android free apps and 49% of the top Android paid apps track user's location
- 50% of the top iOS free apps and 24% of the top iOS paid apps track user's location

Smartphone users generally understand what location tracking is and are fairly aware of some of the risks associated with carrying a device that knows your location at all times. But, location tracking is being conducted in a lot of different ways, by a lot of different entities. One of the most popular approaches is when a developer embeds a tracking code into an app. One of the main reasons app developers initiate app tracking is to generate supplementary revenue by sharing app user data with advertising networks and analytics companies. In some cases, particularly with free apps, developers are paid based on the amount of data they collect and share about users. To see just how prevelant this is, take a look at the Flashlight or Calculator apps. They request your permission to access your location! Now you know why!

The risk: An app may be able to silently trigger the microphone when a mobile device is in a particular geo-location or track your location at certain times of the day. Beyond the physical security concerns of knowing when you are not home, or where a top executive is traveling, there are also corporate espionage concerns. What if a photo tag reveals that a member of your M&A team is in the hometown of a key competitor?

Accesses User's Address Books

- 30% of the top Android free apps and 14% of the top Android paid apps access user's address books
- 26% of the top iOS free apps and 8% of the top iOS paid apps access user's address books

App developers often transmit the contacts or full address book located on the device. One reason generally relates to increasing the viral or network effects of the app. In other words, the developer wants to use the owner's contacts to expand their customer base. Or another reason may be that the developer has leveraged 3rd party SDKs that include the ability to download a user's address book for the purpose of marketing additional mobile apps or services to those in the contact list.

There are a lot of problems with these approaches. For one, who are the contacts on a device? For instance, if a consumer buys an iPhone and plugs it into his or her corporate desktop at work, it will give them the option to sync with contacts from Outlook. Those Outlook contacts are likely a combination of personal and enterprise contacts, with the enterprise contacts being owned by the organization and possibly not even people the user knows. If the app were to ask for permission to access the address book, it would be the user saying "yes," even though the contacts belong to the enterprise.

The risk: In addition to the privacy concern of sharing personal or corporate contacts, or the potential for corporate espionage and theft of valuable contacts, Appthority has also seen an increase in corporate spam as advertisers get list of corporate phone, email, titles, and physical mail address from corporate address books leaking from devices.



Accesses User's Calendars

- 2% of the top Android free apps and 4% of the top Android paid apps access user's calendars
- 8% of the top iOS free apps and 1% of the top iOS paid apps access user's calendars

Mobile apps that access calendar data have very similar issues as those accessing user's contacts. In both cases there is a high potential for data leakage and the exposure of corporate data. If an app accesses a user's calendar, that app has a window into every line of information stored within that calendar. Users often store the names and phone numbers for meeting attendees, meeting minutes and attachments within the notes section – which could include financial spreadsheets, corporate presentations, and other forms of sensitive data, all accessible via the calendar.

The risk: All the data stored in calendar invites, including meeting minutes, call-in information, call passwords, attachments, folks attending, topics discussed, could lead to corporate espionage. The good news, however, is this behavior has improved over time as apps (like LinkedIn) have gotten in trouble for accessing calendars without permission, providing a good example of developers listening when users fight back for their privacy.

Tracks Users with IMEI/UDID

- 88% of the top Android free apps and 65% of the top Android paid apps access IMEI/UDID
- 57% of the top iOS free apps and 28% of the top iOS paid apps access IMEI/UDID

Access to UDIDs is a concern because with a unique device identifier, developers can correlate user behavior across multiple apps (even if they have different usernames and passwords for each of the apps) and then match them to a unique user. Developers and ad networks may also match UDIDs to real user data, including names, passwords, locations and other information. While Apple has prohibited iOS developers from using UDIDs as a means to track and identify users, Appthority discovered that the new rule is only enforced on devices which are running the latest version of iOS. Furthermore, Apple has encouraged developers to use new methods of user identification, to track user behavior on an app-by-app basis.

The risk: A UDID or IMEI is like a web-based cookie that you can't delete, so one of the main risks with UDID tracking is the "permanent" nature of the device to user link. The alphanumeric number linked to a unique device allows developers and ad networks to create a complete profile of a user across multiples apps and profiles and combine with other risky behaviors for an in-depth view of the device owners.

Allows for In-app Purchases

- 58% of the top Android free apps and 30% of the top Android paid apps enable in-app purchases
- 55% of the top iOS free apps and 56% of the top iOS paid apps enable in-app purchases

Most app developers struggle to monetize their apps. Users usually opt for free apps or for cheap apps (\$0.99). Thus, app developers are incented to integrate in-app purchasing for additional revenue on top of what they gain from the initial download. In-app-purchasing allows consumers to buy a variety of items from within the original app, including other apps, services, additional functionality, premium content, etc.

For users whose carrier allows for carrier billing of in-app purchases, in-app purchasing may be a concern to employees as they may incur unauthorized costs that will appear on an employer's bill. In-app purchasing is also a concern when it comes to apps for children, as they may be able to purchase content within apps without the parent's knowledge... until the bill arrives.

The risk: In-app purchasing is an increasing concern to parents as children may have the ability to make in-app purchases which may be charged to an employer who pays for the monthly usage of a work device. In-app purchases have proved to be controversial, The European Commission recently insisted that Apple and Google no longer label apps which allow for in-app purchases as "free apps."



Where Does the Data Go?

Shares User Data with Ad Networks

- 71% of the top Android free apps and 38% of the top Android paid apps share user data with ad networks
- 32% of the top iOS free apps and 16% of the top iOS paid apps share user data with ad networks

App developers seek out additional ways to generate revenue beyond the price to download, especially when most apps offer a free download. Unfortunately, this comes at a cost to user privacy and security. While developers of paid apps receive part of the initial download cost, free app developers are completely dependent on other revenue streams that might be built into and present within a free app. In addition, developers often continue to support their users with new content and newer versions of the app for free. So how might developers make money after that initial download?

One popular method app developers employ to generate supplementary revenue is through sharing user data with advertising networks and analytics companies. In some cases, developers are paid based on the amount of data they collect and share about users. While sharing data with ad networks is often expected from free apps (how else would developers monetize?), it was surprising to find that a large and growing percentage of paid apps also share data with ad networks. Although the user might not be presented with ads as with the free apps, the app developers share data collected with advertising firms and data brokers behind the scenes.

The risk: All the data collected by risky behaviors can be sold/shared with 3rd party ad networks and data brokers. This data can easily combine both user data and enterprise data that has been grouped together on a single device. Although this behavior was originally primarily seen on free apps, this behavior is now seen on both free and paid apps.

Shares User Data with Social Networking (allows for single-sign-on with social networking)

- 73% of the top Android free apps and 43% of the top Android paid apps share user data with social networking sites
- 61% of the top iOS free apps and 53% of the top iOS paid apps share user data with social networking sites

Adding to the list of 3rd parties that collect app and user data, social networking integration is one of the fastest growing categories. Single sign-on (SSO) support, where the mobile app enables users to sign in via integration to a social networking site's login (such as Facebook or Twitter), is one of the latest trends in the app ecosystem. Support for social networking SSO makes for a simplified user experience. However, this behavior is also seen as a risk in a BYOD or Mobile First context, because any data that was previously harvested off a device and shared with ad networks and data brokers, now also makes its way to giant social networking sites (with their own sets of ad networks). Furthermore, if a user's social login is compromised, all of the apps (and websites) that the user has logged into using that same password might be compromised as well.

The risk: Developers have embraced social networking SDKs (software developer kits) that allow their users to login to their app with a social network. However, in return (and often unknowingly to the user), social networks gets access to user device and app data that the developer collected. An increase in the number of third parties that get ahold of user's data opens up the potential of misuse.



Shares Data with 3rd Party Analytic Frameworks

- 38% of the top Android free apps and 20% of the top Android paid apps share user data with 3rd Party Analytic Frameworks
- 31% of the top iOS free apps and 41% of the top iOS paid apps share user data with 3rd Party Analytic Frameworks

Many developers use off-the-shelf, 3rd party tools—such as software developer kits (SDKs) and libraries. This approach allows programmers to develop apps faster and more efficiently, leveraging third-party functionality, and tapping into aggregate data only available through a "network effect". A great risk in using SDKs and/or third-party code is that a developer may unwittingly introduce undesirable behaviors into his/her own apps. Some of the most popular SDKs are analytics frameworks, which collect a plethora of user and app usage metrics across the developer's app, and millions of other apps, to give the developer incredible depth of information on user mobile engagement across their app and the app ecosystem. Analytics frameworks are yet another 3rd party to worry about that is aggregating, sorting, and deeply analyzing user and app data, increasing the complexity of answering the question "where could my sensitive data end up?"

The risk: Similar to sharing data with social networks, many SDKs share data with 3rd party analytics frameworks like Flurry Analytics & Google Analytics, which in turn provide analytics services to the developers to track the use of their app. However developers, and the analytics companies themselves, can then resell this data to advertisers and data brokers.

Shares User and App Data with 3rd Party Crash Reporting

- 56% of the top Android free apps and 29% of the top Android paid apps share user and app data with 3rd party crash reporting
- 48% of the top iOS free apps and 44% of the top iOS paid apps share user and app data with 3rd party crash reporting

As competition stiffens and developers struggle to stay in their users' list of favorite apps, app performance and functionality become critical. Increasingly, developers are turning to 3rd parties to help monitor app performance, and as a result, there has been a boom of 3rd party Crash Reporting SDKs making their way into the top iOS and Android apps. While these 3rd parties are definitely less risky than their advertising, social networking, and analytic counterparts (mostly because they are focusing on app performance, crashes, and bugs), this practice may be risky as it increases the number of 3rd parties receiving data harvested from the device, as well as it introduces 3rd party code into a developer's own app. Introducing 3rd party code can result in unknown security issues and unknown app behaviors.

The risk: Although less risky than the other 3rd party SDKs mentioned previously in the report, Crash Reporting SDKs are yet another 3rd party collecting user (and sometimes corporate) device data and introducing foreign code into a developer's app



Allows Users to Save data/files on Public Cloud File Storage Providers

- 31% of the top Android free apps and 16% of the top Android paid apps allow users to save data on public cloud file storage providers
- 16% of the top iOS free apps and 27% of the top iOS paid apps allow users to save data on public cloud file storage providers

As more users move their data to the cloud, app developers have jumped on the cloud-storage bandwagon and are increasingly including back-end connections to popular public cloud storage solutions directly into their apps. While this trend makes it easier for consumers to share and store data publicly, it creates a nightmare scenario for corporations who want to limit the amount of confidential files that end up on public cloud due to "Rogue IT". Although some companies have implemented policies to ban the use of public cloud apps like Box or Dropbox, even if these apps are blocked, there are now thousands of apps that can save files directly to Box and Dropbox through the use of SDKs and APIs built into apps. For example, even without the Dropbox app present on a device, a user may now save files directly to Dropbox from a number of the top iOS and Android apps.

The risk: The enterprise is trying to stop the "Rogue IT" phenomenon specifically as it applies to corporate documents making their way into the public cloud. Although some corporations are looking to block access to a specific public cloud app like Dropbox, this approach is unsuccessful as more and more apps have direct access to this and other public cloud storage providers.

Risky Behaviors of Paid vs. Free Apps

Are Paid Apps Safer Than Free Apps?

By a large margin, free apps are riskier than paid apps. The biggest disparity between free and paid apps is location tracking. While 66% of free apps track for location, less than half of paid apps (37%) do the same. Free apps are also more likely than paid apps to use single sign-on (67%), share data with ad networks (52%) and analytic frameworks (35%), offer in-app purchasing (57%), identify the user or UDID (73%), and access the address book or contact list (28%).

Paid apps, on the other hand, aren't nearly as safe as one might think. While 99% of free apps exhibited at least one risky behavior, so did 83% of the top paid apps. Developers of paid and free apps are seeking new methods of generating revenue and unfortunately, it comes at the cost of the user's privacy.

Paid apps trailed free apps across all types of risky behaviors:

- In-app purchasing (43%)
- Single sign-on (48%)
- Sharing with ad networks (27%)
- Sharing data with analytic frameworks (31%)
- Identifying the user or UDID (47%)
- Accessing the address book or contact list (11%)
- Accessing the calendar (3%)

Risky Behaviors of iOS vs. Android Apps

When comparing the top iOS and Android apps (both paid and free), iOS apps exhibited a greater percentage of risky behaviors than Android apps did. Appthority determined that 93% of iOS apps exhibit at least one risky behavior mentioned in this report, as compared to 89% of Android apps.



Of the 200 iOS apps the Appthority App Risk Management Service tested (100 free, 100 paid), 37% tracked for location, 57% used single sign-on, 56% offered in-app purchasing, 24% shared data with an alytic frameworks, 17% accessed the address book or contact list, and 5% accessed the calendar.

There was one behavior that Android apps exhibit significantly more than iOS apps; more Android apps access the UDID, 77% of the top 200 to identify the user from that information. Apple actually discourages iOS developers from accessing UDIDs, but the Appthority Service identified that 43% of the top iOS apps are still trying to access the UDID this, which is actually 37 percentage points higher than the findings in Appthority's Summer 2013 report.

While Android apps exhibited fewer risky behaviors overall, they weren't far behind iOS apps. From the 200 free and paid Android apps Appthority tested, 66% tracked for location, 58% used single sign-on, 55% apps shared data with ad networks, 29% shared data with analytic frameworks, 44% supported in-app purchasing, 77% identified the user (or UDID), 22% accessed the contact list or address book, and 3% accessed the user's calendar.

iOS Apps: Paid vs. Free

Apple iPhone and iPad users should note that free iOS apps are riskier than paid iOS apps on the whole, except for in-app purchasing, and accessing cloud file storage and analytic frameworks.

In testing the top 100 free iOS apps, Appthority determined that 50% tracked for location, 61% used single signon, 55% offered in-app purchasing, 26% accessed the user's contact list or address book, 32% shared data with advertising networks, 31% share data with or analytic frameworks, 8% accessed the user's calendar and 57% identified the user or UDID.

However, more paid iOS apps (56%) supported in-app purchasing over free iOS apps (55%). This is interesting because paid apps already generate revenue when first downloaded. A significant percentage of paid apps also share data with advertising networks (16%) and analytic frameworks (41%), which is a common method of monetization as well. Additionally, more paid iOS apps access cloud file storage (27%) vs. free iOS apps (16%)

Other risky behaviors present in the top 100 paid iOS apps include using single sign-on (53%), location tracking (24%), and identifying the user or UDID (28%).

Android Apps: Paid vs. Free

Appthority determined that free Android apps exhibit more risky behaviors than paid Android apps overall, except when it comes to accessing the user's calendar. Significant percentages of both free and paid Android apps identify the user or UDID — far more than iOS apps.

In testing the top 100 free Android apps, the Appthority Service found that 88% identify the user or UDID, 82% track for location, 73% use single sign-on, 71% share data with ad networks, 38% share data with analytic frameworks, 58% support in-app purchasing, 30% access the contact list or address book, and 2% access the calendar.

Of the top 100 paid Android apps, 65% identify the user or UDID, 49% track for location, 30% offer in-app purchasing, 43% use single sign-on, 38% share data with ad networks, 20% share data with analytic frameworks, 14% access the contact list or address book, and 4% access the calendar.

So... Free vs Paid?

In a BYOD or Mobile First context, IT cannot simply suggest that employees use paid apps over free apps. Appthority revealed that although free apps do pose a greater risk to their paid counterparts, there were enough risky behaviors present in paid apps to cause concern as well. An App Risk Management solution needs to be in place in order to be able to analyze all apps (free & paid) at scale.



Developer Breakdown

From the 400 tested apps, the Appthority App Risk Management Service identified the key developers behind the most popular mobile apps. The charts below feature developers that have two or more apps in the top 100 free or paid apps in the Apple App Store or Google Play Store.

Ironically, Google, Inc. dominated the market share of popular iOS free apps (7 apps in the top 100), followed by Amazon (2 apps), Facebook (2 apps), King.com (2 apps) and a few others. There were 88 different developers in the top 100 free iOS apps, with only 7 developers who had more than 1 app in the top 100 free apps.

For iOS paid apps, gaming giants Electronic Arts (5 apps in the top 100) and Rovio Entertainment (4 apps) dominated the landscape, followed by Azumio Inc. (3 apps), and Clear Sky Apps (3 apps). There were 86 different developers in the top 100 paid iOS apps, whith only 7 developers who had more than 1 app in the top 100 paid apps.

On the Android free side, Google, Inc. led the pack (4 apps), followed by King.com (3 apps), Facebook (2 apps), and others. There were 91 different developers in the top 100 free Android apps, and only six developers had more than one app in the top 100 free Android apps.

For the top 100 paid Android apps, there were 87 different developers. As with iOS paid, game developers lead the pack, in this case Electronic Arts (6 apps) and Gameloft (3 apps), followed by Cartoon Netwrok (2 apps), Disney (2 apps), and others. Only 8 developers had more than 1 app in the top 100 Android paid apps.

iOS Developers in the Top 100 Apps

FREE APPS

OGGLE, INC.

AMAZON
MOBLIE LLC

AMAZON
MOBLIE LLC

FACEBOOK, INC.

AMAZON
MOBLIE LLC

MAPMYFITNESS

ALLEAR SKY
APPS LTD

AND APPS

AND APPS

AND APPS

AMAZON
MAPMYFITNESS

ALLEAR SKY
APPS LTD

AND APPS

AND APPS

AMAZON
MAPMYFITNESS

ALLEAR SKY
APPS LTD

AND APPS

CARTOON NETWORK

Figure 4. Who's Who - Developers in the Top 100

UNIQUE DEVELOPERS



In a BYOD or Mobile First context, the sheer number of individual developers makes for a big headache for IT. IT professionals must adopt new methods to manage the massive number of apps (from all types of developers) that are entering the workplace on employee devices. Gone are the days where software came into the enterprise from a few, trusted developers. In today's Bring Your Own App (BYOA) environment, mobile apps come into corporate environments from developers large and small from all over the world.

Summary and Analysis

The results of the Appthority Summer 2014 App Reputation Report confirms that app risky behaviors continue to rise, particularly for free apps on both platforms (99% of free apps demonstrated at least one of the Top 10 risky behaviors). While paid apps are less risky than free apps, users are by no means protected by only downloading paid apps. Appthority found that 83% of the top paid apps exhibited at least one risky app behavior. It's clear that app business models are focusing on collecting user data (and in many cases, selling that data) regardless of whether users have paid for an app or not. In Mobile First, BYOD and BYOA, user data and corporate data live together on the device, making privacy and security concerns relevant to both the users and IT departments.

While Apple's mobile ecosystem is often considered safer in comparison to Android's "open" platform, that's not always the case in terms of apps' hunger for user data. Overall, 93% of iOS apps exhibited at least one risky behavior, as compared to 89% of Android apps.

93%
OF IOS APPS
EXHIBITED AT LEAST
ONE RISKY BEHAVIOR

OF ANDROID APPS
EXHIBITED AT LEAST
ONE RISKY BEHAVIOR

Figure 5. Risky Behaviors – iOS vs. Android.

Additionally, the Appthority Service discovered that 43% of the most popular iOS apps are still trying to access UDIDs to identify and track users, even though Apple explicitly discourages that activity. This makes one wonder what else Apple might be missing during their app review process.

In summary, the only way to avoid security and privacy problems is to have access to real-time static and dynamic analysis of mobile app risk and be able to apply customized policies to limit use of the riskiest apps.

Organizations adopting Mobile First, BYOD, and Bring Your Own Apps policies that want to prevent security and corporate privacy risks, such as location tracking of executives or the leaking of sensitive corporate data, need to incorporate automated App Risk Management. Only by comprehensive visibility into the risky behaviors hidden within mobile apps can organizations build stronger defenses against current and future threats and fully leverage the potential of mobility to empower a safe and secure mobile workforce.



Counts for iOS FREE, and App Developer

2. 100 Balls — Giedrus Takunas 52. Kik Messenger — Kik Interactive Inc. 3. 2008 plus - Challenge Edition — redRit games 53. Kindle — AMZN Mobile LLC 54. Ball Pool** Minicip.com 54. LINE — NAVER JARAN 54. AMZN Mobile LLC 64. Anyp Birds Gol — Rovie Enterainment Ltd 55. Likedim — Linkedin Corporation 1. Likedin 1. Liked	1.	2048	. Ketchapp	51.	Job Search	. Indeed.com
A Ball Pool™	2.			52.	Kik Messenger	. Kik Interactive Inc.
5. Amgor RAPO. Angy Birds Gol. Rovio Entertament Ltd AutorRap by Smule. Smule Badoo Software Ltd SM Make It Rain: The Love of Money. Space Inch, LLC SM Make It Rain: The Love of Money. Space Inch, LLC MIS Perfect Inning. MIS Perfect Inning. AMEN LLG WHILL USA, Inc. MIS Perfect Inning. AMEN LLG WHILL USA, Inc. MIS Perfect Inning. AMEN LLG WHILL USA, Inc. MIS Perfect Inning. APAT IS Strokes, Inc. APAT Stroke	3.	2048 plus - Challenge Edition	. redBit games	53.	Kindle	. AMZN Mobile LLC
4. AusoRap N Smule	4.	8 Ball Pool™	. Miniclip.com	54.	LINE	. NAVER JAPAN
7. AutoRap by Smule Smule 8. Badoo- Neet New People, Chats Socialize Badoo Software Ltd 9. Bank of America 10. Bible Life-Church tv 11. Boom Beach Life-Church tv 12. Candy Crush Saga King corn Limited 13. CastleStorm - Free to Siege ZEN Studios Ltd. 14. Chase Mobile J. Free Studios Ltd. 15. Clash of Clash Supercell 16. Clash of Clash Supercell 17. Chase Mobile J. Free Studios Ltd. 18. Chase Mobile J. Free Studios Ltd. 19. Clash of Clash Supercell 10. Clash of Clash Supercell 10. Clash of Clash Supercell 11. Clash of Clash Supercell 12. Clash of Clash Supercell 13. CastleStorm - Free to Siege ZEN Studios Ltd. 14. Chase Mobile J. Free Studios Ltd. 15. Clash of Clash Supercell 16. Clash of Clash Supercell 17. Clash Clash Supercell 18. Despicable Mer Minion Rays M. Gameloft 19. dDXTRIS Chaotic Box Clash Clash Supercell 19. dDXTRIS Chaotic Box Clash Supercell 10. Don't step the white tile Ayumu Kinsahita 10. Don't step the white tile Ayumu Kinsahita 11. Don't Tap The White Tile WANG BCXUN 12. Don't touch the white sile Lucky Studio 13. Dropbox Precipit Expedial, Inc. 18. Earpoli Hotels & Flights Expedial, Inc. 19. Farewlide J. Country Escape Zing Supercell Lucky Studio Supercell	5.	Amazon App	. AMZN Mobile LLC	55.	LinkedIn	. LinkedIn Corporation
B. Badoo - Meet New People, Chat Socialize Badoo Software Ltd	6.	Angry Birds Go!	. Rovio Entertainment Ltd	56.	Litely	. Litely LLC
B. Badoo - Meet New People, Chat Socialize Badoo Software Ltd	7.	AutoRap by Smule	. Smule	57.	Magic Piano by Smule	. Smule
9. Bank of America Bank of America 60. Bible LifeChurchx v 61. myAT&T AT&T Services, Inc. 11. Boern Beach Supercell 42. Netflix Metflix, Inc. 12. Candy Crush Saga King com Limited 63. Pandora Radio Pandora Media, Inc. 14. Chase Mobile PiPMorgan Chase & Co 65. Perfect365 - One-Tap Makeover Arcs Soft, Inc. 16. Clash of Clans Supercell 67. Pic Stitch Big Blue Clip, LLC 16. Clash of Clans Supercell 67. Pic Stitch Big Blue Clip, LLC 17. CSI: Hidden Cimes Ubisof 68. Pinterest HuWEN ZEMO 18. Despicable Me: Minion Rush Gamelof 69. Real Estate by Zillow Zillow.com 18. Despicable Me: Minion Rush Gamelof 69. Real Estate by Zillow Zillow.com 20. Don't step the white tile Lucky Studio 70. Run with Map My Kyn MapMyFitness 20. Don't step the white tile Lucky Studio 71. RunKeeper FitnessKeeper, In 22. Don't step the white tile Lucky Studio 72. Shadow Fight 2 Nake Mallow 23. Dropbow Dropbow 75. Shash	8.			58.	Make It Rain: The Love of Money.	. Space Inch, LLC
10. Bible		Chat, Socialize	. Badoo Software Ltd	59.	MLB Big Stars Baseball	. Hothead Games Inc.
10. Bible	9.	Bank of America	. Bank of America	60.	MLB Perfect Inning	. GAMEVIL USA, Inc.
12. Cardy Crush Saga	10.	Bible	. LifeChurch.tv			
13. CastleStorm - Free to Siege	11.	Boom Beach	. Supercell	62.	Netflix	. Netflix, Inc.
14. Chase Mobile J.PMorgan Chase & Co 15. Chrome - web browser by Google Google, Inc. 16. Clash of Clans Supercell	12.	Candy Crush Saga	. King.com Limited	63.	Pandora Radio	. Pandora Media, Inc.
15. Chrome - web brower by Google, Inc. 66. Fiano Tiles	13.	CastleStorm - Free to Siege	. ZEN Studios Ltd.	64.	PayPal	. PayPal Inc
16. Clash of Clans Supercell 17. CSI: Hidden Crimes 18. Despicable Me Minion Rush 19. Garneloft 19. dEXTRIS 20. Don't step the white title 21. Don't Tap The White Tile 2. 22. WANNG BOXUN 23. Dropbox 24. eBay 25. Emoji 26. ESPN FC Soccer & World Cup. ESPN 27. Expectial Horles & Flights 28. Especial Horles & Flights 28. Expectial Horles & Flights 29. Facebook Messenger 29. Facebook Messe	14.	Chase Mobile	. JPMorgan Chase & Co	65.	Perfect365 - One-Tap Makeover	. ArcSoft, Inc.
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20. Don't step the white tile	18.	Despicable Me: Minion Rush	. Gameloft	69.	Real Estate by Zillow	. Zillow.com
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1.	10K Runner	Clear Sky Apps LTD
2.	1Password - Password Manager	
	and Secure Wallet	
3.	2-bit Cowboy	Crescent Moon Games
4.	5K Runner	Clear Sky Apps LTD
5.	8mm Vintage Camera	Nexvio Inc.
6.	Age of Zombies	Halfbrick Studios
7.	Akinator the Genie	Elokence
8.	Angry Birds	Rovio Entertainment Ltd
9.	Angry Birds Seasons	Rovio Entertainment Ltd
10.	Angry Birds Star Wars	Rovio Entertainment Ltd
11.	Backflip Madness	Gamesoul Studio
12.	Bad Piggies	Rovio Entertainment Ltd
13.	Bloons TD 5	Ninja Kiwi
14.	CamCard	IntSig Information Co.,Ltd
15.		
16.	CamScanner + PDF Document	IntSig Information Co.,Ltd
17.	Couch-to-5k	The Active Network, Inc.
18.	Cut the Rope	Chillingo Ltd
19.	Cut the Rope 2	ZeptoLab UK Limited
20.	Daily for Craigslist	Lifelike Apps, Inc
21.	Dark Sky	Jackadam
22.	Duck Life	MoFunZone Inc
23.	Dude Perfect	Dude Perfect
24.	Earn to Die	Not Doppler
25.	Emoji ;)	Emoji+
26.	Facetune	Lightricks Ltd.
27.	Fitness Buddy	Azumio Inc.
28.	Flick Home Run!	infinity pocket
29.	Flightradar24 Pro	Flightradar24 AB
30.	Fruit Ninja	Halfbrick Studios
31.	Full Fitness: Exercise	Mehrdad Mehrain
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34.	Heads Up!	Warner Bros.
35.	HotSchedules	HotSchedules
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37.	Instant Heart Rate	Azumio Inc.
38.		
39.	Jesus Calling Devotional by	Nelson Media, Inc.
	Sarah Young	
40.	Kick the Buddy: No Mercy	
41.		
42.	Lock Screen Plus	Faizan Kasbati
43.	Lockscreen Factory Wallpapers for iOS 7	Abdel Satar Mahmoud
44.	Mail+ for Outlook	iKonic Apps LLC
45.	Make Emoji Pro for iOS 7	
46.	Map My Ride+	
47.	Mickey Mouse Clubhouse: Mickey's Wildlife Count Along	Disney
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97. WolframAlphaWolfram Group LLC		'	'
98. Yoga Studio			
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1.	2048 Number puzzle game	Estoty Entertainment Lab	51.	Lost Bubble - Bubble Shooter	Peak Games
2.	Adobe Reader	Adobe Systems	52.	Magic Piano by Smule	Smule
3.	Amazon	Amazon Mobile LLC	53.	Make It Rain: Love of Money	Space Inch, LLC
4.	Angry Birds	Rovio Mobile Ltd.	54.	MLB Perfect Inning	GAMEVIL Inc.
5.	Bank of America	Bank of America	55.	Monster World HD	TeebikGames
6.	Battery Doctor (Battery Saver)	KS Mobile	56.	My Talking Tom	Outfit7
7.	Bible	LifeChurch.tv	57.	Netflix	Netflix, Inc.
8.	Big Fish Casino - Free SLOTS	Big Fish Games	58.	ooVoo Video Call, Text & Voice	ooVoo LLC
9.	Bingo Fever - Free Bingo Game	TOPFUN	59.	Pandora® internet radio	Pandora
10.	Blooming Night Keyboard Theme	e. GO Dev Team	60.	Paperama	FDG Entertainment
11.	Calorie Counter - MyFitnessPal	MyFitnessPal, Inc.			GmbH & Co.KG
12.	Candy Blast Mania	TeamLava Games	61.	Pet Rescue Saga	King.com
13.	Candy Crush Saga	King.com	62.	Photo Grid@Collage Maker	RoidApp
14.	Castle Clash	IGG.COM	63.	PicsArt - Photo Studio	PicsArt
15.	Cats & Dogs Casino -FREE Slots .	Gamelion Studios	64.	Pinterest	Pinterest, Inc.
16.	Chase Mobile	JPMorgan Chase	65.	Plague Inc.	. Miniclip.com
17.	Clash of Clans	Supercell		Pou	
18.	Clean Master - Free Optimizer	KS Mobile	67.	Powerboat Racing 3D	Doodle Mobile Ltd.
19.	Coin Dozer - Free Prizes!	Game Circus LLC	68.	Reign of Summoners 2014	Free Card Games
20.	CSI: Hidden Crimes	Ubisoft Entertainment	69.	Shazam	Shazam Entertainment Limited
21.	DEER HUNTER 2014	Glu	70.	Skype - free IM & video calls	Skype
22.	Despicable Me	Gameloft		Slot Galaxy HD Slot Machines	
23.	Don't Tap The White Tile	HU WEN ZENG	72.	Slots - myVEGAS Slot Machines	PlayStudios
24.	Dropbox	Dropbox, Inc.	73.	Slots Fever - Free Slots	Kakapo
25.	eBay	eBay Mobile	74.	Slots Oz™ - slot machines	GORDON ROBINSON
26.	Emoji Keyboard - Emoticons(KK).	Kaka Mobile	75.	Snapchat	Snapchat, Inc.
27.	Facebook	Facebook	76.	Solitaire	MobilityWare
28.	Facebook Messenger	Facebook	77.	SoundCloud - Music & Audio	SoundCloud
29.	Family Guy The Quest for Stuff	TinyCo	78.	Spotify	Spotify Ltd.
30.	Farm Heroes Saga	King.com	79.	Stickman Basketball	Djinnworks e.U.
31.	Flipagram	Flipagram, inc.	80.	Subway Surfers	Kiloo
32.	Flow Free	Big Duck Games LLC	81.	Super-Bright LED Flashlight	Surpax Technology Inc.
33.	Forest Mania™	yang suhongs	82.	Tango Messenger, Video & Calls.	Tango
34.	Fruit Ninja Free	Halfbrick Studios	83.	Temple Run 2	Imangi Studios
35.	Game of War - Fire Age	Machine Zone, Inc.	84.	The Gate - Free RTS CCG game .	Mobage
36.	Glide - Video Texting	Glide		The Weather Channel	
37.	GO SMS Pro	GO Dev Team	86.	Tumblr	Tumblr, Inc.
38.	Google Docs	Google Inc.	87.	TuneIn Radio	Tuneln Inc
39.	Google Earth	Google	88.	Twitter	Twitter, Inc.
40.	Google Sheets	Google Inc.	89.	Viber	Viber Media S.Ã r.l.
41.	Google Translate	Google Inc.	90.	Vine	Vine Labs, Inc.
42.	Groupon - Daily Deals, Coupons.	Groupon, Inc.	91.	Walgreens	Walgreen Co.
43.	Guess The Emoji	Random Logic Games	92.	WatchESPN	ESPN Inc
44.	HellFire: The Summoning	Mobage		WeatherBug	
45.	Hill Climb Racing	Fingersoft		Wells Fargo Mobile	
46.	iHeartRadio – Internet Radio	Clear Channel		WhatsApp Messenger	• • • • • • • • • • • • • • • • • • • •
		Broadcasting, Inc.		Words With Friends Free	, -
	Instagram	•		World Series of Poker – WSOP	,
	Iron Force	9		Worldcraft 2	
	Kik			Yahoo Mail – Free Email App	
50.	LINE: Free Calls & Messages	LINE Corporation	100). ZEDGE™ Ringtones & Wallpaper	s Zedge



Counts for Android PAID and App Developer

1.	(Paid)GcnBible A7	GCN(Global Communication	51.	Plants vs. Zombies	Electronic Arts Inc
		Network)	52.	PlayerPro Music Player	BlastOn LLC
2.	AccuWeather Platinum		53.	Plex for Android	Plex, Inc.
3.	ai.type Keyboard Plus		54.	Pocket Casts	shiftyjelly
4.	AirSync: iTunes Sync & AirPlay	doubleTwist â"¢	55.	Poweramp Full Version Unlocker.	Max MP
5.	AllCast Premium	ClockworkMod	56.	ProtectedSMS - Paid	Protected Mobility LLC
6.	Beautiful Widgets Pro	LevelUp Studio	57.	R.B.I. Baseball 14	MLB Advanced Media, L.P.
7.	Bloons TD 5		58.	ROM Manager (Premium)	ClockworkMod
8.	Business Calendar Pro	Appgenix Software	59.	ROM Toolbox Pro	JRummy Apps Inc.
9.	Camera ZOOM FX Premium	androidslide	60.	Root Explorer (File Manager)	Speed Software
10.	Card Wars - Adventure Time	Cartoon Network	61.	Scanner Radio Pro	Gordon Edwards
11.	Chaozhuyin(Paid Version)	Chih Chao Yu	62.	SD Maid Pro - Unlocker	darken
12.	Couch-to-5K	ACTIVE Network, LLC	63.	SetCPU for Root Users	MichaelHuang
13.	Cut the Rope	ZeptoLab	64.	Shazam Encore	Shazam Entertainment Limited
14.	Docs To Go Premium Key	DataViz, Inc.	65.	SketchBook Pro	Autodesk Inc.
15.	Endomondo Sports Tracker PRO.	Endomondo.com	66.	Sleep as Android Unlock	Urbandroid Team
16.	ePSXe for Android	epsxe software s.l.	67.	Sleep Cycle alarm clock	Northcube AB
17.	Equalizer MusicPlayer(Pay)	NIMBLESOFT LTD.	68.	SlingPlayer for Phones	Sling Media Inc.
18.	Exchange by TouchDown Key	NitroDesk, Inc.	69.	Smart Lottery (Paid)	xrHome
19.	ezPDF Reader - Multimedia PDF .	Unidocs Inc.		Smart Tools	
20.	FoxFi Key (supports PdaNet)	FoxFi Service	71.	SoundHound	SoundHound Inc.
21.	FPse for android	Schtruck & LDchen	72.	SpongeBob Moves In	Nickelodeon
22.	Fruit Ninja	Halfbrick Studios	73.	Stargazer Paid	FINIK LABS LLC
23.	Gangstar Vegas	Gameloft	74.	SuperGNES (SNES Emulator)	Neutron Emulation
24.	Geocaching	Groundspeak Inc.	75.	Survivalcraft	Candy Rufus Games
25.	Geometry Dash	RobTop Games		Swype Keyboard	
26.	GO Launcher Prime	GO Launcher Dev Team	77.	Tasker	Crafty Apps EU
27.	Grand Theft Auto III	Rockstar Games, Inc.	78.	Taxmann Paid	TAXMANN
28.	Grand Theft Auto: San Andreas	Rockstar Games, Inc.	79.	Temple Run: Oz	Disney
29.	Greenify (Donation Package)	Oasis Feng	80.	Terraria	505 Games Srl
30.	HD Widgets	cloud.tv	81.	The Amazing Spider-Man 2	Gameloft
31.	Hitman GO	SQUARE ENIX Ltd	82.	THE GAME OF LIFE	Electronic Arts Inc
32.	HotSchedules	HotSchedules	83.	The Room	Fireproof Games
33.	Icebreaker: A Viking Voyage	Nitrome	84.	The Room Two	Fireproof Games
34.	IP Cam Viewer Pro	Robert Chou	85.	The Sims™ 3	Electronic Arts Inc
35.	iSyncr for iTunes to Android	JRTStudio	86.	Threes!	Sirvo Ilc
	Justin.tv		87.	Topia World Builder	Crescent Moon Games
37.	Machinarium	Amanita Design		Torque Pro (OBD 2 & Car)	
38.	Minecraft - Pocket Edition	Mojang		Trickster MOD Donate Key	
39.	Modern Combat 4: Zero Hour	Gameloft		True Skate	
40.	MONOPOLY	Electronic Arts Inc		tTorrent - Torrent Client App	
41.	Monsters Ate My Birthday Cake	Cartoon Network		TuneIn Radio Pro	_
42.	Moon+ Reader Pro	Moon+	93.	Ultimate Guitar Tabs & Chords	Ultimate Guitar USA LLC
43.	MX Player Pro	J2 Interactive	94.	Where's My Water?	Disney
44.	My Backup Pro	Rerware, LLC		Wipeout	
45.	NBA JAM by EA SPORTS™	Electronic Arts Inc		WolframAlpha	
	Need for Speed™ Most Wanted.			World of Goo	
	Next Launcher 3D Shell			Worms 2: Armageddon	
48.	OfficeSuite 7 Pro (PDF&Fonts)	Mobile Systems, Inc.		XDA Premium	-
49.	Osmos HD	Hemisphere Games). Zooper Widget Pro	
	Phase 10	•			

About Appthority

Appthority's Mobile App Risk Management service automates the discovery, analysis, and approval of apps present on employee devices. Only Appthority combines the largest global database of millions of previously analyzed public and enterprise apps with a policy management engine to automate app review and approval of new apps as well as enforce custom, acceptable use policies for thousands of employees within minutes. Appthority enables companies to leverage mobility and empower a smarter, safer, mobile workforce.

